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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/815,670	03/23/2001	Hiroshi Yoshida	09792909-4825	5768
26263	7590 07/17/2002			
SONNENSCHEIN NATH & ROSENTHAL			EXAMINER	
P.O. BOX 061080 WACKER DRIVE STATION CHICAGO, IL 60606-1080			LEUNG, QUYEN PHAN	
			ART UNIT	PAPER NUMBER
			2828	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)				
		09/815,670	YOSHIDA ET AL.				
		Examiner	Art Unit				
		Quyen P. Leung	2828				
The MAILING DATE of this communication appears on the c ver sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)	Responsive to communication(s) filed on						
2a)□		s action is non-final.					
3)□	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)🖂	Claim(s) 1-24 is/are pending in the application.						
4	4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5)	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-24</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
9)[] 7	The specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)							
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				
S. Patent and Tra	demark Office						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

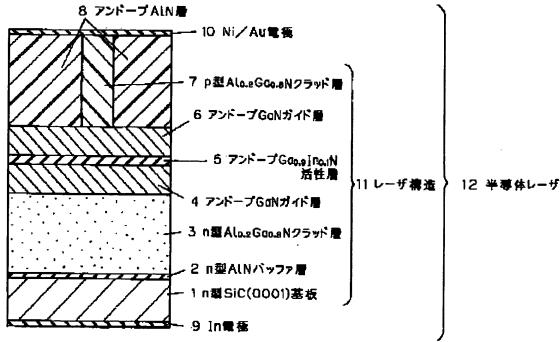
1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 2. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Kamimura et al (JP 09-232680-A). Kamimura et al discloses the claimed invention. For example, note figure 1 which illustrates a semiconductor laser light emitting device

【図1】

本署明の、第1の実施の形態における半導体発光素子の構造断面図



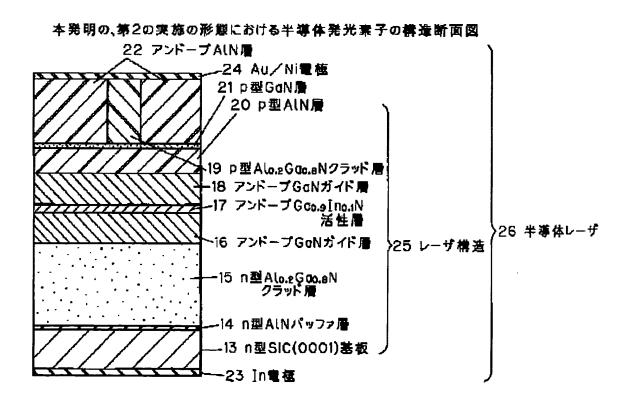
comprising a stacked film composed of a stack of group III nitride semiconductor films

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(2,3,4,5,6,7,8) each containing at least one kind selected from aluminum, gallium, indium and boron, wherein an upper portion (7) of the stacked film is formed into a ridge-like stripe, to form a current injection region, a current non-injection region (8) formed on both sides of the ridge-like stripe (7) and at least part of the current non-injection region (8) is made from a material (AIN) expressed by a chemical formula AIGaN, the improvement wherein the component "x" of AI is specified at a value in a range of 0.3<=x<=1.0, so that the semiconductor laser light emitting device is configured as an index guide type semiconductor laser light emitting device.

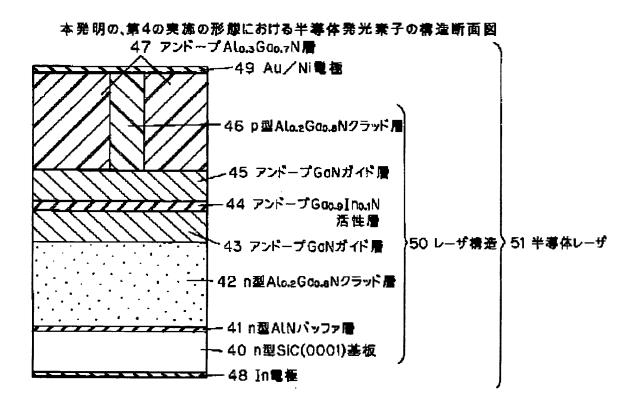
Note also figures 2 and 4.

【図2】



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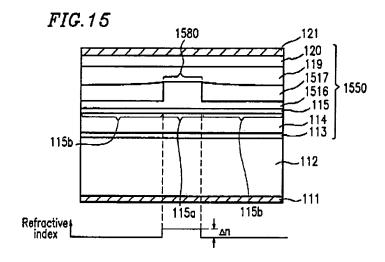
【図4】



3. Claims 9-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Kume et al (5,923,690). Kume teaches the claimed invention. For example, note figure 15 which illustrates a semiconductor laser light emitting device comprising a stacked film composed of a stack of group III nitride semiconductor films (1550) each containing at least one kind selected from aluminum, gallium, indium and boron, wherein an upper portion (1516) of the stacked film is formed into a ridge-like stripe (1580), to form a current injection region, a current non-injection region (1517) formed on both sides of

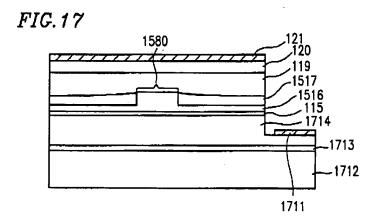
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the ridge-like stripe (1580) and at least part of the current non-injection region (1517) is



made from a material ($Al_{x=0.25}Ga_{1-x}N$) expressed by a chemical formula AlGaN, the improvement wherein the component "x" of Al is specified at a value in a range of 0.15<x<0.30, so that the semiconductor laser light emitting device is configured as a weak index type pulsation semiconductor laser light emitting device.

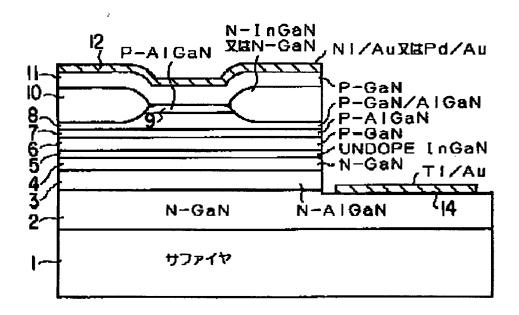
Note also figure 17.



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4. Claims 17-24 are rejected under 35 U.S.C. 102(b) as being anticipated by John et al (JP 10-093140-A). John et al discloses the claimed invention. For example, note figure 3 which illustrates a semiconductor laser light emitting device comprising a

【図3】



stacked film composed of a stack of group III nitride semiconductor films (2-11) each containing at least one kind selected from aluminum, gallium, indium and boron, wherein an upper portion (8, 9) of the stacked film is formed into a ridge-like stripe, to form a current injection region, a current non-injection region (10) formed on both sides of the ridge-like stripe (8,9) and at least part of the current non-injection region (10) is made from a material (GaN or, equivalently, $Al_{x=0}Ga_{1-x}N$) expressed by a chemical formula AlGaN, the improvement wherein the component "x" of Al is specified at a value

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in a range of 0<=x<=0.15, so that the semiconductor laser light emitting device is configured as an gain guide type semiconductor laser light emitting device.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quyen P. Leung whose telephone number is (703) 308-0545. The examiner can normally be reached on 8:30-5:00, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Quyen P. Leung Primary Examiner Art Unit 2828

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